



INSTALLATION AND USE MANUAL



mod. FAST 02 e FAST 03

ENGLISH MANUAL

1	Package contents	page 2
2	Introduction to the product	page 3
3	Conditions of use and warnings.....	Page 3
4	Installations tips of fogging systems – recommendations	page 4
5	How to activate the system	page 5
6	Technical specifications	page 6
7	Electricity supply	page 6
8	Battery power	page 7
9	Description and input and output connections.....	page 7
10	Connection examples	page 8
11	Meaning of front LEDs.....	page 11
12	Setting shooting time and fog flow direction.....	page 12
13	Installation, exchange and cylinders reset.....	page 13
14	Maintenance.....	page 14
15	Defects and possible solutions.....	page 16
16	WARRANTY	page 17

The conditions of use will be accepted automatically breaking the security labels on the product.

1 PACKAGE CONTENTS

Inside the package you will find:

1. The machine **FAST 02** or **FAST 03**,
2. 1 fog fluid charged cylinder for the model **FAST 03 1C** or two cylinders for the models **FAST 03 2C** and **FAST 02 2C**.
3. A label to indicate device presence.
4. Installation and use manual.

2 INTRODUCTION TO THE PRODUCT

Thank you for purchasing UR Fog product.

The large patented technological innovations such as the liquid injection system, the not returnable cylinders, the fact that they don't need to charge and they are also one-use, the ecological and economic system for the complete emptying of the cylinders, together with the heating system, all of them make the FAST fog generators the best fog devices with the best performance in the security market.

- Reliable
 - There are not high pressure pumps that loose fluid or tend to stop working
 - There are not high pressure pumps that must be tested periodically
 - UR Fog double cylinders technology is a guarantee of working in any condition
- Competitive
 - Complete use of cylinders liquid avoiding any waste of liquid thanks to pressure control
 - low power consumption
 - Fast and powerful
- Simple
 - Easy to install machines and also
 - Can be integrated to any existing alarm system
 - Inside there are 2 cylinders included (mod. FAST 03 1C – 1 cylinder)

3 CONDITIONS OF USE AND WARNINGS

The fog generated by UR Fog does not create particular problems or injuries for a human being for a short stay in a fogged room if the system is used according to the manufacturer's recommendations. Generated fog is stated as safe for people and animals from an authorized international certification company and is proved that do not leave any residual. UR Fog FAST 02 and 03 are certified respecting European laws and regulations. Any certifications required in specific countries are on the responsibility of the distributor of the specific country. The documents related to certifications can be requested by mail to support@urfog.com. It is not guaranteed by the manufacturer the use of UR Fog system in the presence of objects that may be damaged anyway in contact with substances based on glycol, water and alcohol. Any employee or worker that may be exposed to fog must be advised in advance and must be verified if there can be any allergy to the defined above substances. At the date of printing of this manual it has never been pointed out any problem related to any allergy. UR Fog is anyway not responsible for any damage or condition of use that has not been required by any specific written request, and specifically approved, prior to the installation of its products. For fog fluid please refer to UR Fog fluid safety data sheet published on the website and carefully read it at www.urfog.com. Contact a doctor if for any reason you swallow fog fluid or if after contact with eyes or skin you have any kind of reaction, anyway wash it immediately with water and soap. Do never stay for a long time in a room filled with fog. Do not use charged cylinders that are not the ones suggested by UR Fog and never try to recharge them, they are made for a single use. Follow your national rules for the dispose of empty cylinders. Keep UR Fog cylinders out of reach of baby and animals. The nozzle may be hot and touching it may cause burns. Do not look directly into the nozzle. Do never use UR Fog for any purpose that is not related to protection from thief or robbery (the choice of the conditions of use in case of robbery will be suggested by your security consultant).

Do never use different fog fluids or add any other substance into the cylinders. Do not use or keep in charge UR Fog machine in vehicles and do never transport UR Fog before 24 hours it has been shut off. During transport it must be not armed.

4 INSTALLATION TIPS OF FOGGING SYSTEMS - RECOMMENDATIONS

Please observe the following instructions for mounting UR Fog:



- 1. The machine must be installed avoiding to block escape routes.**
- 2. Verify the fog does not limit the visibility near: stairs, landing, moving objects that may cause: falls down, injuries or any damage to persons.**

3. Do not look directly into the nozzle. Do not add any other substance into the cylinders.
4. The nozzle may reach high temperatures, touch it may cause burns.
5. When UR Fog produces fog avoid staying less than 1 meter from the machine.
6. When UR Fog is armed avoid staying less than 50 cm from the nozzle.
7. Before tests of UR Fog, remember to report it in advance to the firefighters in your area to avoid false alarms.
8. Remember to put warning labels about the presence of UR Fog on the windows.
9. Report its installation to the firefighters in your area and eventually to other institutions if needed.
10. It is necessary to add an external switch to separate the fog generator from the alarm system and it should be activated before the maintenance to avoid that input tests, for example, can activate the fog generator.
11. Never direct the fog jet towards an object or a wall less than 2 meters, if it is possible increase suggested minimum distance. Thanks to the power of the jet, UR Fog reaches and exceeds more than 10 meters away for first 3 seconds from the point where the machine is installed.
12. Setting the shooting time interval between the minimum and maximum shown in the time table, avoid doing "overshooting" even if the produced fog is dry and generally doesn't leave residue. A shot that goes far beyond the recommended seconds can create residue problems in the room.
13. UR Fog continues to be effective for up to 2 hours without main power 220V thanks to the insulation system that maintains long-temperature in the heating system.
14. Install at height of about 2,5 meters not to let be reached to avoid possible tampering.
15. Install with a maximum inclination of 20°.
16. Do not move the machine when it is still hot.
17. The main body of UR Fog FAST 02 and Fast 03 that has the heating system closed inside a metal frame, should not be opened unless from specific and authorized service centers. For no reason open and touch insulation before 24 hours UR Fog has been shut off. The internal part may reach really high temperature.
18. Do not activate the UR Fog machine before the installation is not completed.
19. Insert the cylinders as the last procedure and verify the the anti-tampering function.
20. When the installation is finished, test always the system.
21. From the moment of UR Fog activation, it is necessary at least one hour to reach the minimum temperature need for the fog shoot.
22. Install UR Fog avoiding an obstacle in front area which can prevent spread of the fog.
23. The external temperature of UR Fog can change from the enviromental temperature to 50 °C.
24. Request to UR Fog or its distributors to take part in courses for installers to ensure optimal installation of the equipment.

5 HOW TO ACTIVATE THE SYSTEM




It is always recommended to affix the Fast 02 or Fast 03 on a wall also when it is on a flat surface.

Verify always that the bracket or the support surface are suitable for the weight of the machine.

It is suggested not to install the machine behind walls in a limited close area without a specific ventilation to prevent a possible overheating.

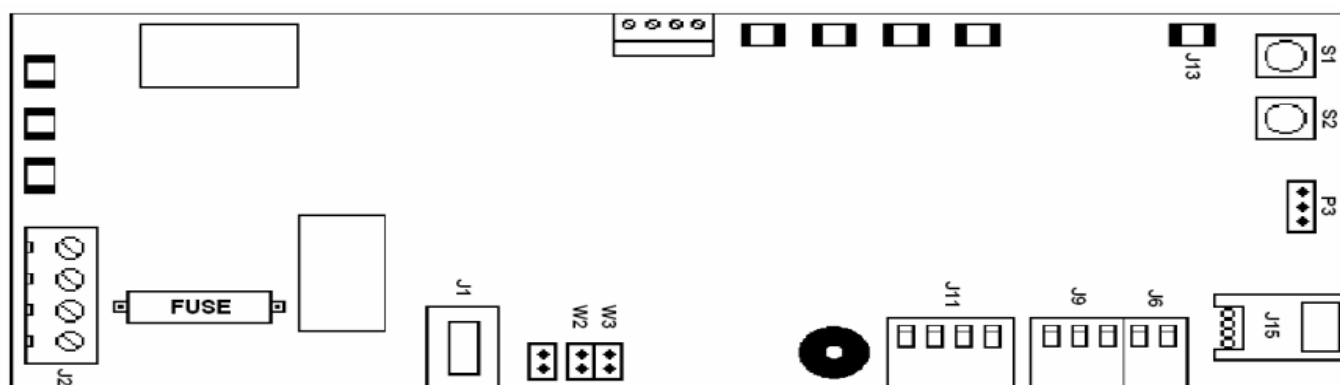
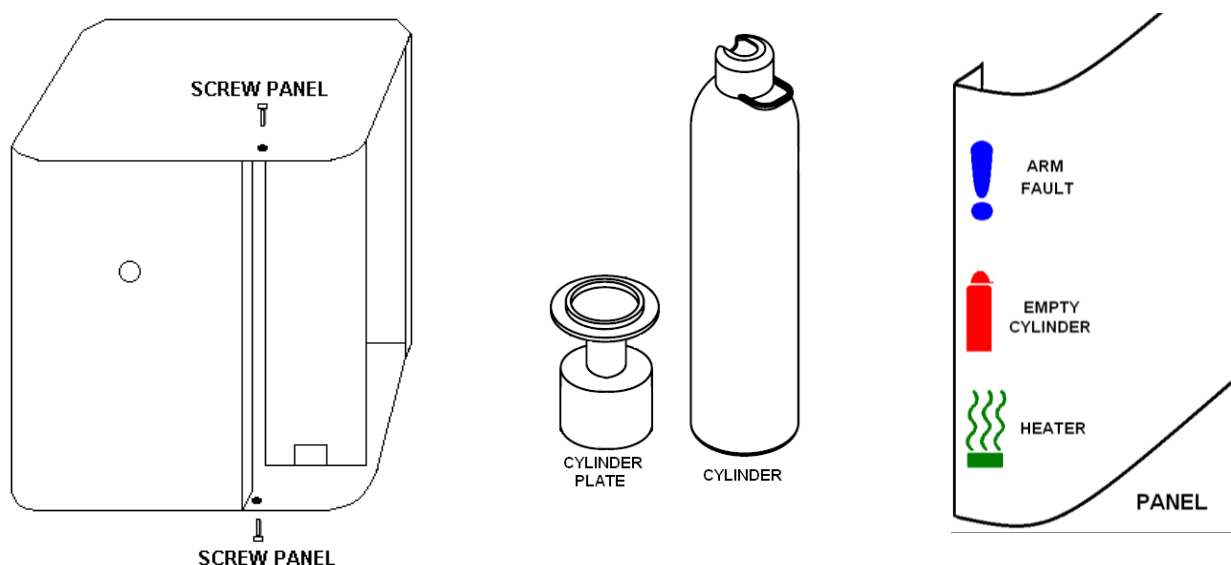
After removing the machine from the package, unscrew the two screws that stop the right side panel and remove it. Inside it is possible to see the front part of the electronic circuit, later called as PCB.

On the side you can see two cylinders (one for Fast 03 1C) placed on the cylinder plate.

 It is necessary to take away the cylinders to remove the blocks placed in the upper part of the cylinders, they are only used to avoid the risk of discharge of the liquid during the transport.

On the rear of cabinet you have to remove precutted wholes on metal case choosing the proper ones after deciding straight or corner installation

The round precutted wholes are instead to be used for cables that should go in or out of the machine.



PCB

6 TECHNICAL SPECIFICATIONS

	FAST A 03 1C TS	FAST A 03 2C TS	FAST A 02 2C TS
Weight without cylinders and battery	10 Kg	11 Kg	14,7 Kg
Fog emission in a single shoot	300 m ³	300 m ³	600 m ³
Total emission capacity	600 m ³	1200 m ³	1500 m ³
Cylinders capacity	1 x 400 ml	2 x 400 ml	2 x 500ml
Work time without main power	2 hours 30 minutes	2 hours 30 minutes	2 hours 30 minutes
Thermocouples	2	2	2
Max power on heating system	500W	500W	500W
Heating time	40 minutes	40 minutes	60 minutes
Average power consumption	40W	40W	45W
Maximum consume at 12V	230 mA after shooting 60 mA stand-by	230 mA after shooting 60 mA stand-by	230 mA after shooting 60 mA stand-by
Average batteries lifetime	12 months with 10 shoots	12 months with 10 shoots	12 months with 10 shoots
Door anti tampering	Micro switch	Micro switch	Micro switch
Anti-tear off or anti-shift	Accelerometer	Accelerometer	Accelerometer

7 ELECTRICITY SUPPLY

Power 220V supplies energy only to the heating system. Electronic card and the motors of the cylinders are supplied from the alarm system and batteries.

The heating element is of 1KW, at the very beginning power consumption is about 500W and in some minutes it goes down reaching average consumption which is about 40W - 60W.



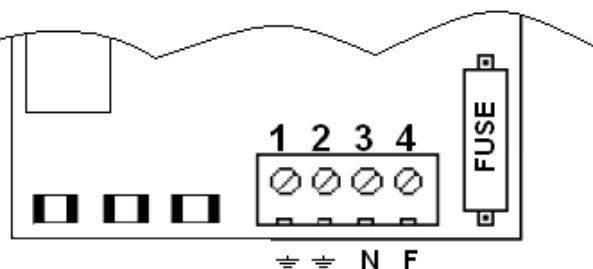
Do not use: inverter or UPS unless you have the certainty that they generate a proper sine wave, but not rebuilt.

- The max current to be considered for the system is 4A
- The connection to the electricity grid 230V must be performed by a qualified technician.
- Connect the equipment to the electricity grid only after you have completed the installation.
- It is necessary to connect the ground terminal.

PLEASE NOTE THAT, AS ALL POWERED EQUIPMENT FROM THE SUPPLY REQUIRING INSTALLATION, IT IS SUBJECT TO COMPLIANCE RULES OF THE COUNTRY IN WHICH IT IS INSTALLED

For section and types of wires, fuses, suitability of materials to installation sites etc..

- 1 Ground connection for heat exchanger and cabinet
- 2 Ground connection
- 3 Neutral 220V
- 4 Phase 220V



IF YOU NEED TO REPLACE THE FUSE, USE THE ONE WITH EXACTLY THE SAME SPECIFICATIONS. IF ANY DOUBT, ASK YOUR AUTHORIZED DEALER

8 BATTERY POWER

The batteries are intended to maintain the efficiency of the electronic card, allowing the fog emission even in absence of power supply from the electricity grid, until the heating system has a sufficient temperature.

The batteries also have the purpose of activating the motors that rise up plates with cylinders, even if it is available the main power supply or 12V from the alarm system.

Without batteries, with dead batteries, rechargeable or poor quality ones, motors do not rise up plates that push cylinders.

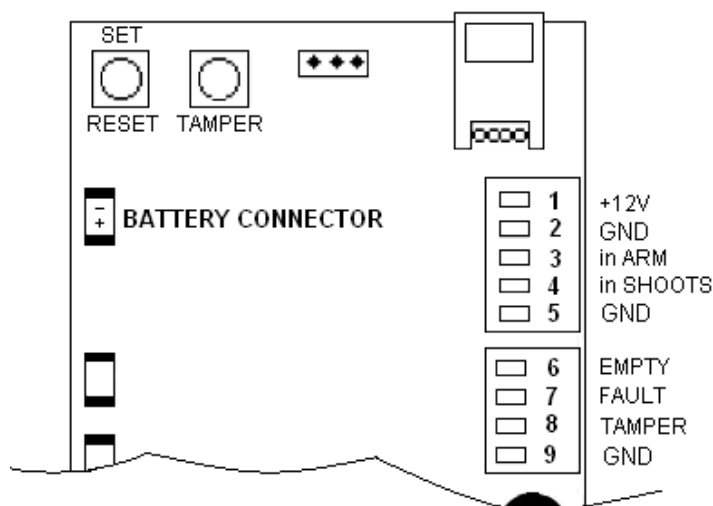
For this reason it is important:



- To use only high quality alkaline batteries
- To replace them within the expiry date
- Anyway to replace them every 12 month
- When Fast 02 / Fast 03 report the signal of battery low (paragraph 11 and 14)
- Battery case test to any action (paragraph 14)

After inserting the batteries, it is important to check they are in a good contact with the battery case to guarantee the proper functioning. Description of how make tests is in paragraph 14.

9 DESCRIPTION OF INPUT AND OUTPUT CONNECTIONS



INPUTS

- | | | |
|---|-------|-------------|
| 1 | + 12V | Power input |
| 2 | GND | Power input |

In these inputs is necessary to provide a stable supply, between 11V and 14V DC from the alarm control panel or from an external 12V power supply.

This power is necessary to the operation of the LED and for the logic of operation.

In the absence of voltage on this input, the logic part continue to operate, but not the heater. For about 2 hours and 30 minutes, or until the temperature of the heat exchanger (heating system) allows, Fast 02 or Fast03 may produce fog.

The maximum current drawn from UR Fog on this input is 230 mA.

- | | | |
|---|-----|--------------|
| 3 | ARM | Arming input |
|---|-----|--------------|

Connecting this input to positive, Fast 02 or 03 is armed, blue frontal led is switched on and when the machine reaches proper temperature it means that it is ready for shooting.

In case of alarm, opening ARM input, the fog emission stops immediately, even if it has not spent the setting time.

4 **SHOOTS** shooting input.

Putting this input to positive, if Fast 02 or 03 is hot and armed, starts fog emission for the set time (see programming section shooting time)

5 **GND** **Negative reference** connected to terminal 1

OUTPUTS

6 **EMPTY** Output empty cylinder

This output (NPN Open Collector) closes towards negative direction when at least one of the two cylinders is empty.

7 **Fault** Fault output

This output (NPN Open Collector) closes towards negative when there is a serious malfunction (such as batteries expired, fault of power supply or temperature control fault), which compromises the functioning of the device and which requires a technical action

8 **Tamper** Tamper output

This output (NPN Open Collector) closes towards negative direction when you open the door cylinders or when the accelerometer detects a sudden movement (such as the detachment from the wall)

9 **GND** **Negative reference** connected to terminal 1

To comply with the requirements of the reference standard EN50131-8



Remember, it is necessary to connect all three outputs to an alarm central or an electronic panel that can see all those information in real time and take proper action. In order to avoid accidental activation with subsequent fog emission, the inputs are in "negative security", for this reason the disconnection of a wire does not cause activation.

So it is necessary to check carefully the reliability of connections and protect the cables to the control panel to avoid the risk of accidental damages.

10 CONNECTION EXAMPLE

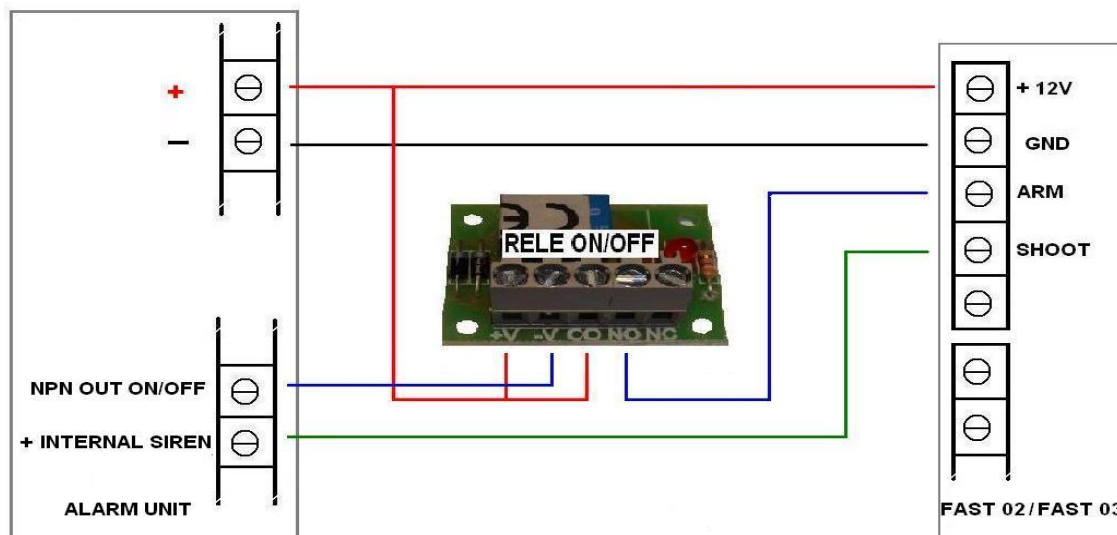


The diagrams and examples below are intended only to a "better understanding" the operation of the inputs / outputs. None of the diagrams below represents the "single scheme to perform" as, in respect of the reference standard EN50131-8, there are precise indications and only using all inputs and outputs on the PCB it is possible to respect the standard.

If UR Fog is used as "ANTI-ROBBERY" device, it is necessary a careful assessment of the risks by a security consultant.

- A Example of connection UR Fog inputs with outputs of a central anti-theft standard
- B Example of connection for anti-robbery use with external power supply
- C Example of connection of the UR Fog outputs to drive LEDs and / or relays
- D Example of connection of the UR Fog outputs with inputs of an antitheft normally opened
- E Example of connection of the UR Fog outputs with balanced inputs of an antitheft

A - Example of inputs connection UR Fog with outputs of a central alarm

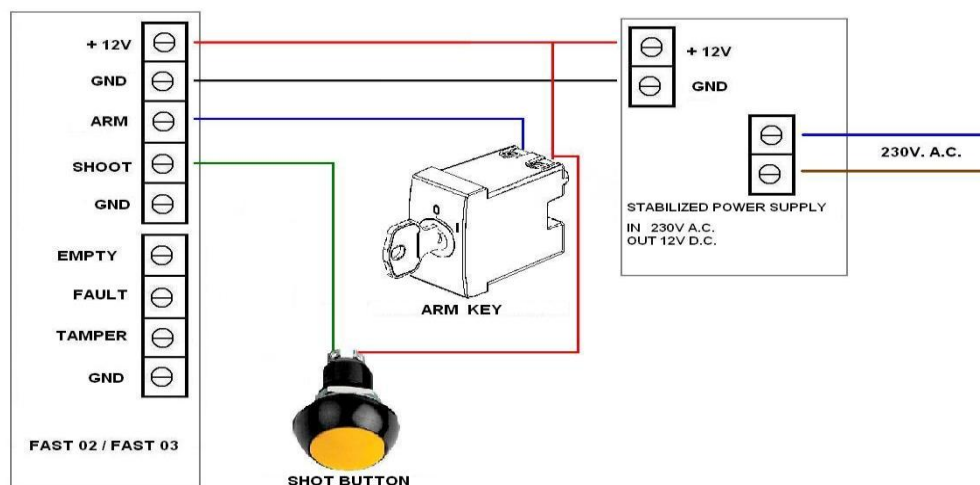


In the diagram above the control panel, as example, provides to UR Fog power supply between 11 and 14V DC 250 mA max.

The ON/OFF output of this power plant is an Open Collector NPN opened when the system is off and it is closed stably to negative for all the time in which the system still lit.

The alarm output of the plant is normally open and becomes positive during the alarm time.

B - Example of UR Fog connection with external power supply for anti-robbery use



In the diagram above Ur Fog is powered by an external power supply.

When Fast 02 or 03 is used with an external power supply in case of power failure, the machine will not be able to shoot. For this reason, when the anti-robbery function must be guaranteed in the absence of power, it is needed to add a rechargeable battery with a capacity of 1.2 Ah 12V in parallel to the output of power supply.

The arming key is important, as required by law, to allow you to disarm the device when not in use and maintenance.

The shooting button, when the machine is armed, starts the fog emission immediately after pushing the button with time already set in advance.

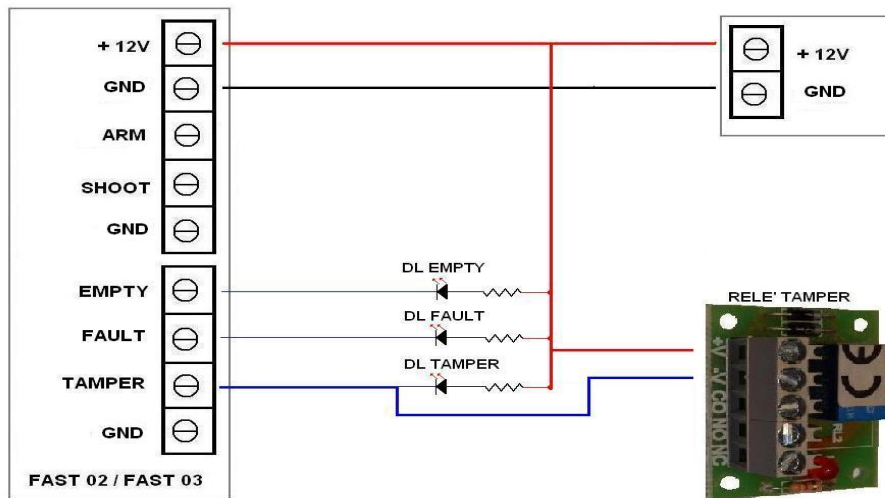
To stop the fog emission before the set time, turn the key to disarm the machine.



For safety reasons and to avoid false fog emissions in power, when Fast02 or Fast 03 is armed, it becomes operative only after 20".

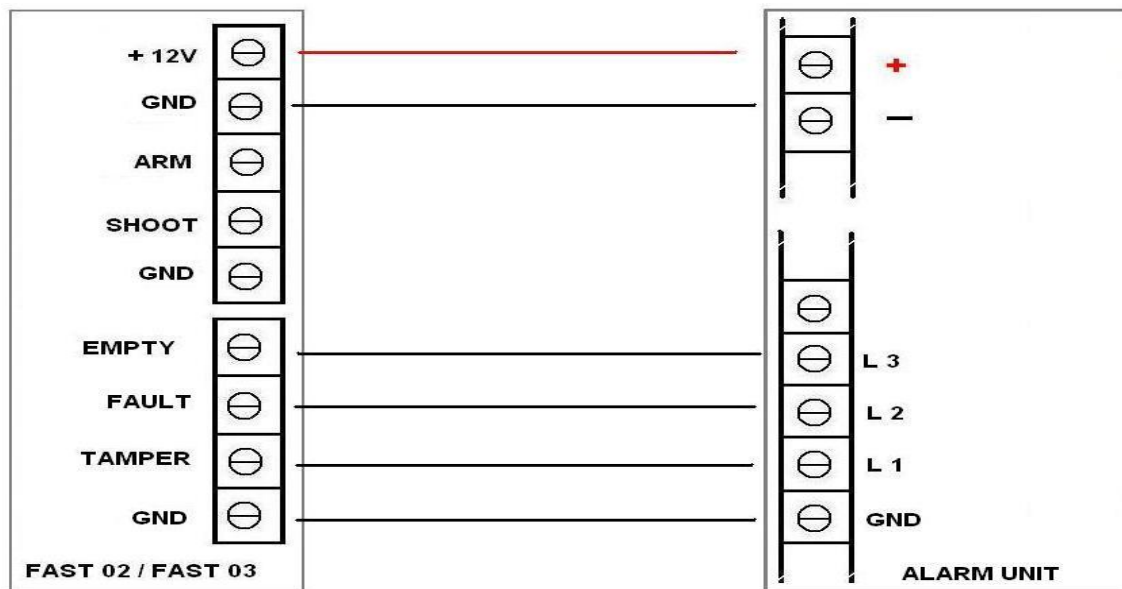
After this time, the fog emission is instantaneous.

C - Example of outputs connection to drive LEDs or RELAY



when a cylinder is empty, DL EMPTY will switch on
 when there is a fault DL FAULT will switch on
 when you open the cylinders door, in addition to DL TAMPER the relay switch
power max applicable on the outputs 100mA

D - Example of connection of UR Fog outputs with opened inputs of an alarm system

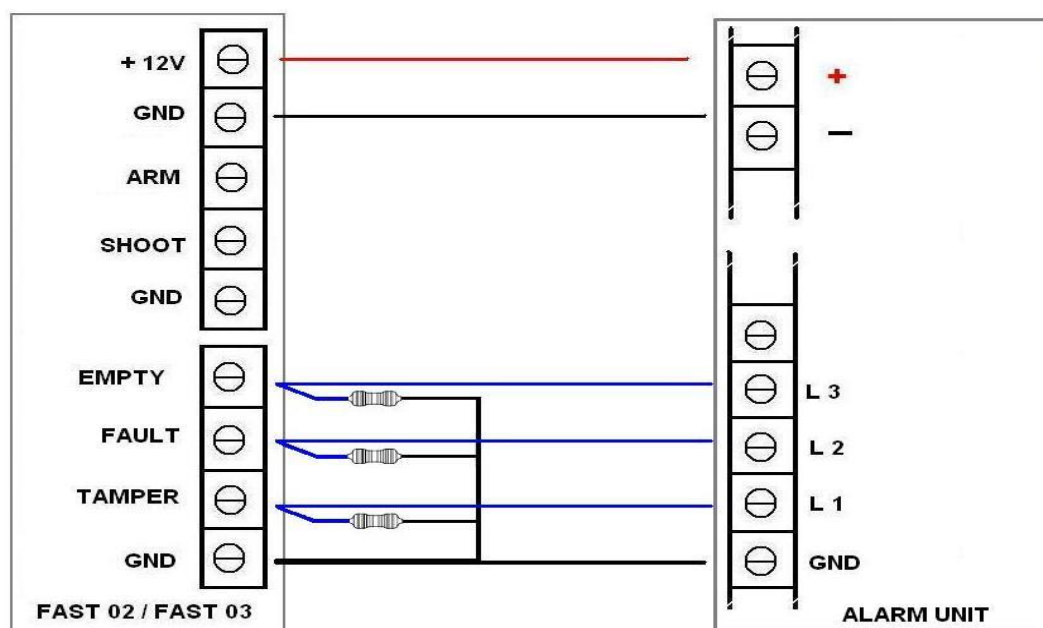


The UR Fog outputs are normally opened and connected with input zones of the alarm control panel normally opened

According to the diagram above:

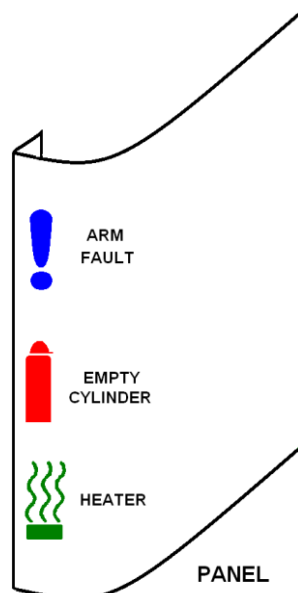
when there is an empty cylinder the entrance area L3 will detect an alarm;
 if a failure occurs or the batteries run down, L2 detects an alarm;
 when you open the door of the cylinders, L1 detects an alarm

E - Example of connection of UR Fog outputs to an alarm system with input zones "BALANCED"



In this diagram, putting the resistance value required by the alarm control panel used in the terminal UR Fog, with not used outputs the central will see the correct resistance, while following the activation of an output, you will have a pull-down causing the alarm of the corresponding zone.

11 MEANING OF FRONT LEDs



LED BLUE

Lightened means it is armed, hot and ready to shoot.

Flash lights means something is wrong.

See paragraph 15 **DEFECTS AND POSSIBLE SOLUTIONS**

LED RED

It is lightened when at least one cylinder is empty or it is in reserve (only **FAST 03 1C**)

See paragraph 13 **INSTALLATION, EXCHANGE AND CYLINDERS RESET**

LED GREEN

Flash lights means the heating process is in progress. Fast 02 or Fast 03 in this step is heating but is not ready to shoot

Lightened (steady green light) means Fast 02 or Fast 03 is hot and ready for the fog emission



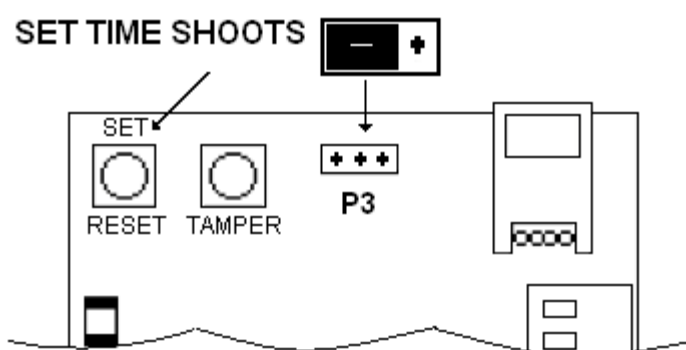
IF THE BLUE LED FLASHING, TOGETHER WITH THE SOUND OF CONTINUOUS BUZZER, IT IS DETECTED A SERIOUS PROBLEM. SEE PARAGRAPH 15



The symbol for empty cylinder, in Fast 03 1C has the meaning of "RESERVE"

That is, since the last "RESET CYLINDER" the machine issued at least 50% of the estimated range of the cylinder.

12 SETTING SHOOTING TIME AND FOG FLOW DIRECTION



For the setting of the shooting time, after opening the cylinders compartment door, at the top of the PCB, you must put the jumper in position P3 SET TIME SHOOTS.

Holding down the button S1 "SET" all leds on the front will flash and each flash is equivalent to one second.

If you press again the button, the shooting time is not added to the one previously set, but will restart from zero.

N.B. Before opening side doors ensure that the control panel is provided in the "service", so that the opening of the circuit "anti-sabotage or tamper" does not cause any shooting.

TIME TABLE RECCOMENDED FOR SHOOTING BASED ON m³ TO PROTECT

The time of shooting of the cylinders may vary depending on the environment temperature and on the used nozzle. The table below is stated considering standard conditions.

TABLE OF SHOOTING FAST 02

m ³ of fog	Seconds of emission	m ³ of fog	Seconds of emission	m ³ of fog	Seconds of emission
15 - 30	1	165 - 270	11	315 - 465	21
30 - 60	2	180 - 290	12	330 - 490	22
45 - 90	3	195 - 310	13	345 - 505	23
60 - 120	4	210 - 330	14	360 - 520	24
75 - 150	5	225 - 350	15	375 - 535	25
90 - 170	6	240 - 370	16	390 - 550	26
105 - 190	7	255 - 390	17	405 - 565	27
120 - 210	8	270 - 410	18	420 - 590	28
135 - 230	9	285 - 430	19	435 - 605	29
150 - 250	10	300 - 450	20	450 - 620	30

TABLE OF SHOOTING FAST 03

m ³ of fog	Seconds of emission	m ³ of fog	Seconds of emission	m ³ of fog	Seconds of emission
20 - 30	1	102 - 158	6	168 - 245	11
30 - 60	2	116 - 178	7	180 - 260	12
60 - 90	3	130 - 190	8	190 - 275	13
72 - 114	4	144 - 210	9	200 - 290	14
88 - 138	5	156 - 230	10	210 - 305	15

The first value indicates in m³ the area to protect, the second one indicates the seconds of emission.

The value in m³ may vary depending on the density that you desire to obtain.

With the first value you obtain the maximum of density suggested to guarantee the absence of any residual.

With the second value you obtain the minimum of density suggested (almost 50 cm), a higher visibility makes the fog useless.

In places where a slight residue is not a problem, it is possible to increase the time of shooting.

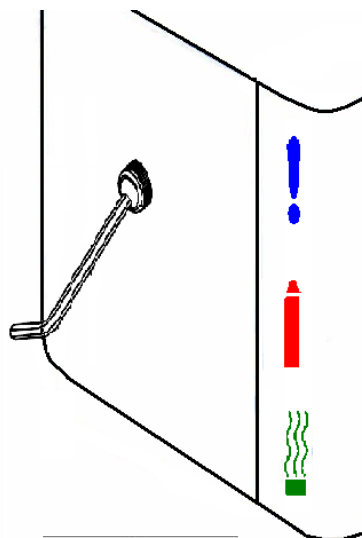
We remind you that more fog is released more time it takes to have again visibility.

High levels of fog over suggested limits may leave residue.

Any residue usually goes away by itself within 24/48 hours, otherwise, being soluble in water, it is enough to use a wet cloth for cleaning.

If you desire to obtain 1 meter visibility average after 60 seconds, as specified by the standard EN50131-8, and is used as reference by all manufacturers of Fog generators, the second value in m³ of fog has to be redoubled.

FOG FLOW DIRECTION



To ensure the right direction of the fog flow, it is recommended to insert a screw driver of a diameter of the hole and without forcing to orient the nozzle in correct direction of fog emission

This allows you to see clearly the direction and keep it in place while tightening.

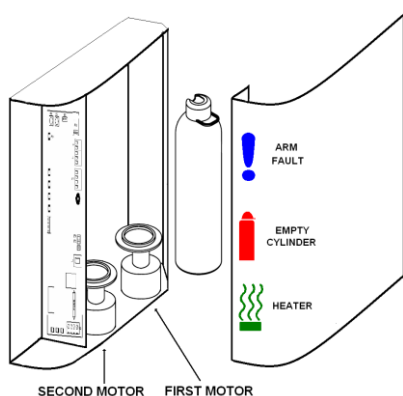
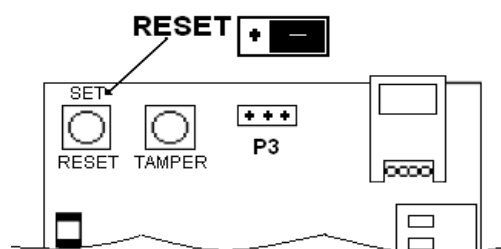
To screw and unscrew the nozzle you should use a pair of pliers in good condition to avoid damaging the plating.

Do not overscrew the nozzle, it is sufficient that the teflon nozzle does not move.

Do not direct the fog jet towards objects and walls less than 2 meters or to the floor if it is installed at a height lower than 2.50 meters.

WARNING! After the fog emission, and for a few minutes the nozzle is very hot
RISK OF BURNS IF TOUCHED by hands

13 INSTALLATION, EXCHANGE AND CYLINDERS RESET



The cylinders for fog cannons Fast 02 and Fast 03 are guaranteed to work for 3 years from production date.

The expiry date is printed on the top of them.

After that date cylinders should be changed even if they are not used.

It is recommend returning the same to the dealer, who will take care of disposal.

For Model Fast 03 1C, with one cylinder, the reporting of "reserve" occurs when the machine has shooted at least 50% of the expected duration of the cylinder calculated in seconds and not in quantity of fluid shooten.

For this reason it is recommended to use only new cylinders, and reset only when you actually inserts a new cylinder. After removing the screws from the door, take away the cylinders and reset the warning light for empty cylinder. After this operation, insert the new cylinder until you hear the "click" of the plastic support at its top that goes into the slot, then close the door of the cylinder.



If the cylinder seemed "stuck" in the upper part **DO NOT** pull with force, make a pressure with two fingers on top of the cylinder, such as to lower it. Then try again to remove it.

If the cylinder does not enter, check if the cylinder plate of the motor remains lifted. If so see paragraph 14



In case of an empty cylinder to be replaced, it is recommended that it be replaced with the second cylinder still charge present in the machine, and a new cylinder will replace this last one.

This in order to ensure a proper rotation of the cylinders and to avoid that a cylinder can remain unused for a long time within the device.

When you close the door, the buzzer will sound to confirm the tamper is closed.

Attention: Before opening side doors ensure that the alarm control panel is in the "service" function, so that the opening of the circuit "anti-sabotage or tamper" does not cause any alarm.

14 MAINTENANCE

UR Fog generators not require special care, however, it is recommended the support of qualified and authorized personnel for periodic annual monitoring, taking into account the following:

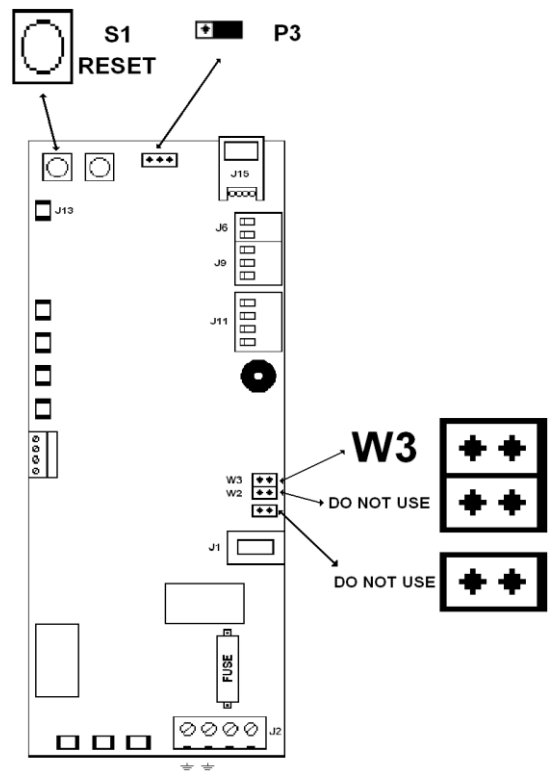
- The charged cylinders have a limit of predetermined duration of 3 years.
- The deadline is printed at the top of the cylinder.
- Verify annually the functioning of the cylinder plates.
- Check the air tightness of the circuit and the operation of the switch.
- The efficiency of the batteries is crucial to guarantee the operation
- It is recommended to return to your dealer the deadline cylinders but not ended even if not empty
- An empty cylinder, being aluminum / steel can be recycled as the common cans
- It is recommended to change the 6AA internal batteries once every 12 month

UP / DOWN CYLINDER PLATES – SCROLLING TEST

If you want only lower a cylinder plate after an activation without the cylinder, use the following instructions, from step 6:

The scrolling check of the cylinder plates, is performed by activating the motors without cylinders with the following sequence:

- 1) Close the jumper **W3** putting the card in “service mode”
- 2) Close the jumper P3 in the RESET position
- 3) Hold down the button **S1**,
the buzzer beeps and then:
 - Motor 1 down
 - Motor 2 down
 - Motor 1 up
 - Motor 2 up
- 4) Release the button S1 (in this situation you can hear the noise of the Nozzle tamper pump and a slight smoke can exit from the nozzle)
- 5) Remove the jumper **W3**
- 6) With a slight finger pressure on the cylinder plate of the first motor, push again the button S1
- 7) Replaced the cylinder plate of the first motor, without leaving S1, move the finger from the first cylinder plate to the second one.



If there were no problems, the scrolling test is ended, otherwise contact the service center.



If the plates are completely escaped you will need two down cycles for repositioning. The motors of the cylinder plates are ALWAYS powered from the batteries, so that any action reduce the autonomy of them.

CHECKING OF THE PNEUMATIC CIRCUIT AND PRESSURE CONTROL

The pneumatic seal test must be done within a few seconds when the pump for nozzle tamper control is turned on, as the nozzle temperature rises rapidly reaching temperatures that cause serious burns.

The air coming out of the nozzle exceeds 200 ° C.

Closing with one finger the exit of air from the nozzle while the pump is on you may verify if the pneumatic circuit is correctly sealed

If there are no losses inside the circuit under pressure, within a few seconds the buzzer will start to operate inside the device and make some sound. Otherwise contact the maintenance service.

If the buzzer sounds before closing the nozzle, it means that there is a blockage or malfunction. In this case, contact the maintenance service.

VERIFICATION OF BATTERIES AND BATTERY CASE

When you have to change the batteries:

- After one year of using
- Within the deadline printed on them
- When it is reported they stopped to function.

If the batteries run down, it starts a sequence of acoustic signals:

- 2bips/minute - battery is low,
- 3bips/minutes - machine is out of use, battery too low,
- 10bip/minutes - batteries missing or bad contact on battery case, plug or cable interrupted.

The anomaly of the batteries also causes the activation of the output "fault", useful to signal a possible anomaly.

When the empty batteries are removed from the battery case, the buzzer will sound a sequence of 10bips for each minute.

After re-inserting the new batteries, it is suggested to wait at least one minute, to verify that the sequence of beeps is not repeated.

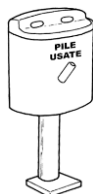
If the sequence of beeps does not stop, you have to check the polarity of the batteries, and, if yes, check the batteries are in correct contact with the battery case.

In this step it is suggested to verify a battery case with a tester.

It is necessary the use of alkaline batteries of excellent quality.

It is possible the use of lithium batteries - please ask to your dealer.

When you close the door, the buzzer will sound to confirm the closing of tamper.




We recommend to throw away the batteries in the appropriate waste containers for recycling.

Heavy metals contained in them are recoverable



Empty cylinders are in aluminum for Fast 02 and steel for Fast 03
Metals are easily recyclable.

DEFECTS AND POSSIBLE SOLUTIONS

DEFECT FOUND	POSSIBLE CAUSE	POSSIBLE SOLUTION
The three front LEDs flash and the buzzer emits 1 beep / minute	The +12 V input voltage is too low or too high	Check the external power supply or the alarm unit
The buzzer emits 2 beeps / minute	Low battery but still can shoot	Replace batteries - See paragraph 14
The buzzer emits 3 beeps / minute	Low battery power can not shoot	Replace batteries - See paragraph 14
The buzzer emits 10 consecutive beeps every minute	Batteries absent	Insert batteries
	False contact battery case	Move the batteries, turn them
	Connector not correct inserted	Remove and reinsert the connector
	In any case it is useful to use a tester to verify the presence of voltage on the battery case	
The machine is armed (BLUE LED ON) but does not shoot	The front red LED is on	Has not been made the reset of the cylinders Reset as described in paragraph 13
		The cylinders are empty – Change the cylinders as described in paragraph 13
	The front green LED flashes	The heat exchanger has not yet reached the minimum temperature of shooting, wait for stop flashing (standard time of heating 60 min)
	The machine does not shoot immediately after arming	For security reasons and to avoid false fog emissions in power, when the machine is armed, it becomes operative only after 20". After this time, the emission is instantaneous.
	Wiring error	Verify that the alarm once activated has a tension on connectors of at least 12V
the buzzer sounds continuously and the LED flashes blue	Error reading thermocouples	Disconnect electrical power from the machine for a few minutes. If this happens again contact technical support Not try to repair
Can not arm, BLUE LED doesn't become on	Wiring error	Test the terminal that there is a minimum voltage of between 11V - GND (5) + ARM (3), when the anti-theft system is activated
When you press the reset cylinder button can not hear the sound of the buzzer, the all front leds flash but the red LED does not reset	The Jumper P3 stands in the "SET" position	 CAUTION in this case the shooting time is reset Reset cylinders - Paragraph 13 Set shooting time - Paragraph 12
The cylinder does not enter	The plate is raised	Follow the instructions at paragraph 14
The cylinder does not exit	The cylinder is stuck in the valvebody	Pressure down and then pull
Setting the shooting time, the buzzer does not sound and the LEDs do not flash	The jumper P3 stands in the "RESET" position	See the setting mode of the shooting time at paragraph 12

Warranty

The warranty of UR Fog is two years and is handled directly from the dealer or authorized installer, so please contact your supplier to take advantage of warranty with the copy of the purchase document that contains the serial number of the machine. Not included in the warranty: moving parts and/or damages depending on the incorrect use unless it is found a manufacturing defect in origin. Liquid and cylinders are not covered by warranty.



BREAKING THE SECURITY LABELS AND THE OPENING OF THE MACHINE YOU WILL ACCEPT WHAT IS WRITTEN ON THIS MANUAL AND ON THE WEB SITE:

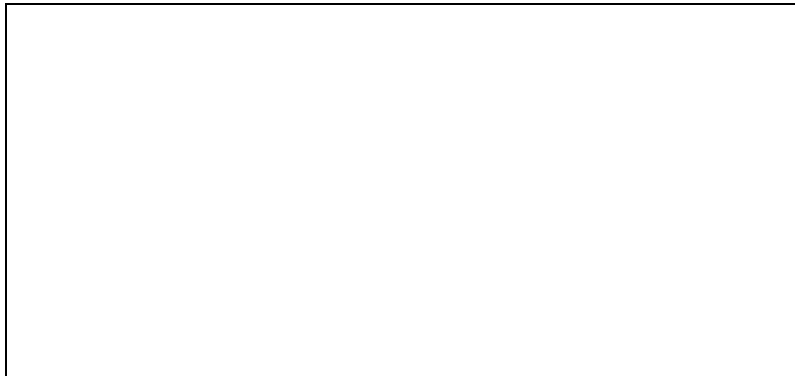


UR Fog srl, legal office: Via Giacinto Collegno 11 - 10143 - Torino - Italy

Tel 011/01.33.037 Fax 011/01.33.005

www.urfog.com

support@urfog.com.



RESELLER/INSTALLER STAMP
(company to contact for the warranty)

Serial number

Date of installation

Signature of installer

MAINTENANCE

DATE	BATTERY EXCHANGE		CYLINDER EXCHANGE		SIGNATURE
	YES	NO	n.	NO	
	YES	NO	n.	NO	
	YES	NO	n.	NO	
	YES	NO	n.	NO	
	YES	NO	n.	NO	
	YES	NO	n.	NO	
	YES	NO	n.	NO	
	YES	NO	n.	NO	
	YES	NO	n.	NO	
	YES	NO	n.	NO	
	YES	NO	n.	NO	
	YES	NO	n.	NO	
	YES	NO	n.	NO	
	YES	NO	n.	NO	
	YES	NO	n.	NO	
	YES	NO	n.	NO	
	YES	NO	n.	NO	
	YES	NO	n.	NO	
	YES	NO	n.	NO	
	YES	NO	n.	NO	



DICHIARAZIONE DI CONFORMITA'

DECLARATION OF CONFORMITY

COSTRUTTORE: UR Fog srl, sede legale: Via Giacinto Collegno 11 - 10143 - Torino - Italy

Sede operativa: Via Poliziano n. 34 int.5 - 10153 - Torino - Italy

MANUFACTURER: UR Fog srl, Legal office: Via Giacinto Collegno 11 - 10143 - Torino - Italy

Operation and delivery to: Via Poliziano 34 int. 5 - 10153 - Torino – Italy

PRODOTTO: Nebbiogeno UR Fog

PRODUCT: UR Fog fog cannon

MODELLO: FAST 02 - FAST03 - FAST 03 1C

MODEL: FAST 02 - FAST03 - FAST 03 1C

ANNO DELLA MARCATURA CE: 2013

YEAR OF CE MARK: 2013

Con la presente dichiariamo che il prodotto sopraindicato è conforme alle prescrizioni di sistema EN 50131-1 e EN 50131-8.

With this document we declare that the specified product is constructed respecting the prescriptions described in EN 50131-1 and EN 50131-8.

Il prodotto è conforme alle seguenti norme:

The product conforms to the following norms:

CEI EN 50131-1:2012

CEI EN 50131-8:2010

CEI EN 61000-6-3: 2007 + /A1: 2012

CEI EN 61000-3-2:2007 +/A1/A2:2011

CEI EN 61000-3-3:2009

CEI EN 50130-4:1996 +/A1:1999+/A2:2003

CEI EN 60335-1:2008 +/A13:2009, /A14:2012, /A15:2012

Prepared by: UR Fog srl

Legal office: Via Giacinto Collegno 11-10143

Torino - Italy

Operation and delivery to: Via Poliziano 34 int.5-10153

Torino - Italy,

VAT IT10724850010

Mr. Alberto Mori

Managing Director

UR Fog srl